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WEITERE INFORMATIONEN OK

An unending variety of topics

Friday, October 13, 2006

Visual mathematics

Symbols are indispensible, but we lost something when symbolic algebra replaced geometry as the main medium of mathematics. My math is quite rusty but I understood these proofs within a few seconds. Via Teeming Multitudes.

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About Me

Nick Szabo

"A premier thinker about history, law and economics, and the lessons they have for security." -- Adam Shostack, Emergent Chaos

"Szabo comes out with these essays that leave me in awe." -- Brian Dunbar

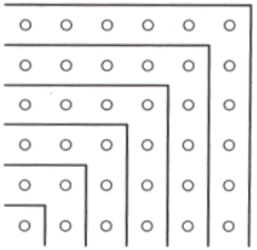
"Reading material that is eclectic, challenging and endlessly fascinating." -- Sean McGrath, Propylon

"Like most blogs worth my attention, this blog is updated only infrequently. That is because the authors of blogs worth my attention only post when they have something to say that is true, relevant and not already known by their audience. Most of the human race does not have the skill to know when an idea has these three properties. The skill is particularly rare in the fields of politics and economics, which is why this blog is such a rare and valuable thing." -- Richard Hollerith

View my complete profile

THEOREM: $1 + 3 + 5 + \ldots + (2n-1) = n^2$

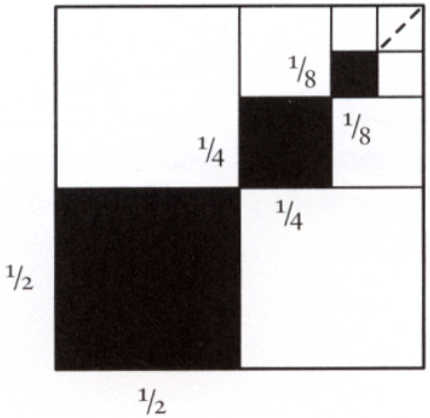
PROOF:



THEOREM:

$$\sum_{n=1}^{\infty} \frac{1}{4^n} = \frac{1}{4} + \frac{1}{16} + \frac{1}{64} + \frac{1}{256} + \cdots = \frac{1}{3}$$

PROOF:



James Robert Brown

Posted by Nick Szabo at 11:54 PM

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